

## APPLICATION

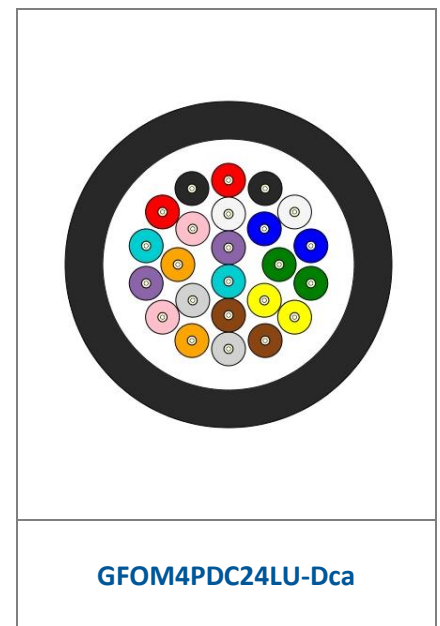
The Brand-Rex D<sub>ca</sub> Premises Distribution Cable (PDC) family is compliant with the European Construction Products Regulation, achieving Euroclass level D<sub>ca</sub> according to EN 13501-6. These D<sub>ca</sub> Euroclass cables also have superior levels of smoke emission, flaming droplets and acid gas production making them a versatile choice for many internal installations. The PDC D<sub>ca</sub> Euroclass cables are suited to low density backbone installations.

Brand-Rex PDCs offer up to 24 tight buffered fibres in a compact cable construction. The product range is designed using non wicking yarns and UV stable Halogen Free Flame Retardant Low Smoke (HFFR-LS) sheathing material as standard.

Brand-Rex PDCs are suitable for use in structured cabling installations: data centres, LANs, SANs and longer length backbones.

## FEATURES AND BENEFITS

- 2-24 Halogen Free Flame Retardant Low Smoke (HFFR-LS) sheathed Tight Buffered Fibres - colour coded according to TIA-598-C
- Customisable Fibre Selection - Single-Mode, Multi-Mode and hybrid versions to suit a variety of applications
- Flexible Strength Members - in the form of glass yarns for improved installation preparation time and rodent resistance
- Black HFFR-LS material meets the requirements of the Construction Products Regulation (CPR) Euroclass D<sub>ca</sub>
- Exceeds the Mechanical and Environmental Performance defined by IEC 60794-2-20
- Included in the Leviton and Brand-Rex 25 Year System Warranties when used in conjunction with Leviton or Brand-Rex connectivity. System warranties available for qualified projects installed by certified contractors.



## STANDARDS

**Applicable Cable Standards:** IEC 60794-2-20

**Test Standards:** IEC 60794-1-21 and IEC 60794-1-22

## FIBRE IDENTIFICATION

Fibre Identifier*	008	108	208	062	050	OM3	OM4
IEC 60793 Reference	2-50-B1.3	2-50-B6_a	2-50-B6_a	2-10-A1b	2-10-A1a.1	2-10-A1a.2	2-10-A1a.3
ITU-T Recommendation	G.652.D	G.657.A1	G.657.A2	n/a	G.651.1	G.651.1	G.651.1
ISO/IEC 11801 Category	OS1/OS2	OS1/OS2	OS1/OS2	OM1	OM2	OM3	OM4

## REACTION TO FIRE

CHARACTERISTIC	STANDARD	RATING
Single Cable Flame Rating	IEC 60332-1-2	Pass
Bundled Cable Flame Rating	EN 50399 20.5kW source	D <sub>ca</sub>
Smoke Production	EN 50399	s1
Flaming Droplets / Particles	EN 50399	d1
Acid Gas Emission / Acidity	EN 50267-2-3	a1
Euroclassification	EN 13501-6	D <sub>ca</sub> s1 d1 a1

# Optical Premises Distribution Euroclass D<sub>ca</sub> Cables

Datasheet: GD103593v1



## PHYSICAL CHARACTERISTICS

Fibre Count	Nom. Buffer Diameter (mm)	Nom. Cable Diameter (mm)	Nominal Cable Weight (kg/km)
2	0.9	5.3	33
4		5.5	40
6		5.9	45
8		6.5	53
12		7.1	62
16		7.7	72
24		8.9	89

## MECHANICAL PERFORMANCE

Fibre Count	Max. Long Term Load (N)	Max. Short Term Load (N)	Min. Static Bend	Min. Dynamic Bend	Max. Crush (N)	Max. Impact (Nm)	Max. Torsion (Turns $\pm 180^\circ$ )
2-6	400	1000	10 x Cable Diameter	15 x Cable Diameter	1000	5	5
8	441	1500					
12	519	1600					
16	608	2000					
24	765	2300					

## TEMPERATURE PERFORMANCE

Fibre Count	Operational Temperature Range	Storage Temperature Range	Installation Temperature Range
2-24	-20°C to +60°C	-20°C to +60°C	-10°C to +60°C

## PRINT LEGEND

Example print legend:

[Length Mark]m BRAND-REX a LEVITON company OPTICAL FIBRE CABLE GFOM4PDC24LU-Dca 24 FIBRE 50/125 OM4  
EN 50399 Euroclass Dca s1 d1 a1 MADE IN UK [ID number] [Week/Year]

## PACKAGING INFO

Part Number	Reel Size (flange x width mm)		Gross Weight (kg/reel)		Reels per Pallet	
	2km	4km	2km	4km	2km	4km
GF*PDC02LU-Dca	710 x 380	915 x 460	77	143	3	2
GF*PDC04LU-Dca	710 x 380	915 x 460	83	155	3	2
GF*PDC06LU-Dca	915 x 460	915 x 460	98	174	2	2
GF*PDC08LU-Dca	915 x 460	1070 x 510	113	214	2	1
GF*PDC12LU-Dca	915 x 460	1070 x 510	129	245	2	1
GF*PDC16LU-Dca	915 x 460	1070 x 510	147	282	2	1
GF*PDC24LU-Dca	915 x 460	1200 x 700	179	348	2	1

\* Fibre Identifier e.g. "008" for G.652.D fibre

*"Brand-Rex is **dedicated** to **designing, developing and manufacturing** sustainable **high performance** structured cabling and speciality **cabling solutions**"*

The information contained in this document is valid and correct at the time of issue. Brand-Rex reserves the right to modify details without notice in light of subsequent standard/specification changes and ongoing technical developments.